Applicant: Sheree H. Wen

Serial No.: 10/044.381

Page 2

an intake portion releasably connected to the vacuum cleaner body such that

the intake stage forms an airtight seal with the vacuum body;

the vacuum cleaner having an intake opening, an exhaust portion, and

a filtration system disposed there between to filter contaminated air drawn

through the intake opening, the filtration system including:

a first passive stage to filter out airborne particles above a predetermined size,

an active stage including at least one agent effective to kill ambient biological

contaminants, and

a second passive stage for removing odors and hazardous chemical agents,

wherein the first passive stage is sandwiched between the active stage and the second

passive stage to form an integral filter.

--3. (Amended) A hand-held vacuum cleaner in accordance with claim 1,

wherein the agent in the active stage is clorohexdine, ethanol, lysostaphin, benzoic acid

analog, lysine enzyme and metal salt, bacitracin, methicillin, cephalosporin, polymyxin,

cefaclor, Cefadroxil, cefamandole nafate, cefazolin, cefime, cefinetazole, cefonioid,

cefoperazone, ceforanide, cefotanme, cefotaxime, cefotetan, cefoxitin, cefpodoxime

proxetil, ceftaxidime, ceftizomxime, ceftrizxone, cefriaxone moxalactam, cefuroxime,

cephalexin, cephalosporin C, cephalosporin C sodium salt, cephalothin, cephalothin

sodium salt, cephapirin, cephradine, cefuroximeaxetil, dihdratecephaloghin,

moxalactam, or loracarbef mafate.

--6. (Amended) A vacuum cleaner in accordance with claim 5 wherein the

metallic agent is silver, zinc, titanium, or copper mesh.

Applicant: Sheree H. Wen Serial No.: 10/044,381

Page 3

--10. (Amended) A vacuum cleaner in accordance with claim 2, wherein the

active ingredient is in the form of a particulate, a tablet, a tape, a mesh, a solid

containing the active ingredient, or a fabric containing the active ingredient.

--11. (Amended) A filtration unit comprising:

a first passive stage for filtering out particles above a predetermined size,

an active stage containing at least one agent to kill ambient bacteria and

viruses, and

a second passive stage for removing odors and hazardous chemical agents,

wherein the first passive stage is sandwiched between the active stage and the second

passive stage to form an integral filter;

an intake port permitting contaminated air to enter into the filtration unit; and

an exhalation port through which decontaminated air may be expelled.

--12. (Amended) A filtration unit in accordance with claim 11, wherein the

second passive stage includes an activated charcoal agent.

--14. (Amended) A filtration unit in accordance with claim 11, wherein the agent

in the active stage is chlorhexidine, ethanol, lysostaphin, benzoic acid analog thereof,

lysine enzyme, bacitracin, methiclillin, cephalosporin, polymyxin, cefaclor, Cefadroxil,

cefamandole nafate, cefazolin, cefixime, cefinetazole, cefonioid, cefoperazone,

ceforanide, cefotanme, cefotaxime, cefotetan, cefoxitin, cefpodoxime proxetil,

ceftaxidime, ceftizoxime, ceftriaxone, cefriaxone moxalactam, cefuroxime, cephalexin,

Applicant: Sheree H. Wen Serial No.: 10/044,381

Page 4

cephalosporin C, cephalosporin C sodium salt, cephalothin, cphalothin sodium salt,

cephapirin, cepharadine, cefuroximeaxetil, dihydratecephalothin, moxalactam, or

loracarbef mafate.

--17. (Amended) A filtration unit in accordance with claim 16, wherein the

metallic agent is in the form of a mesh and is silver, zinc, titanium, copper, or iron oxide.

--21. (Amended) A filtration unit in accordance with claim 13, wherein the active

ingredient is in the form of a particulate, a tablet, a tape, a mesh, a solid containing the

active ingredient, or a fabric containing the active ingredient.--